



K1DMR – Atlanta, GA

REPEATER

FACT SHEET



INTRODUCTION

In an effort to increase add wide area coverage and uptime reliability to the current DMR repeaters in the Atlanta metro area, the Amateur DMR Repeater team has completed the installation of a central downtown high site (Atlanta Metro Central) with dedicated wired high speed internet access. This is the second repeater installed this week after Snellville Mountain (Atlanta Metro East).

OPERATING PARAMETERS

Input: 449.4375 Mhz

Output: 444.4375 Mhz (+5 Mhz)

Color code 1

Network: K4USD.org (all listed Talk Groups on www.k4usd.org)

EQUIPMENT

Motorola MTR3000

Motorola Duplexer, Pre-selector and Circulator

100 watt output

Andrew Commscope DB-408 Omni 8.7dbi

Advanced Receiver 18db gain preamp

60ft of 7/8 hardline

All new equipment specifically designed for this site

COVERAGE FACTS

Atlanta Metro (Metropolitan Statistical) Area is within the top 10 largest cities in the US with 5.6 million in population and is one of the fastest growing SMSAs within the top 10 cities in the US.



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The antenna is located in the central downtown (midtown) area approximately 700ft high (GAMSL 990ft, AHAAT 758 Feet) and located atop a 45+ story building, which is within the top 10 tallest buildings in the Atlanta Metro Area.

Coverage includes the Hartsfield–Jackson Atlanta International Airport which has been the world's busiest airport system every year since 2000, with a passenger count of 22.7 million per year.

Coverage area includes approximately 12k licensed amateur radio operators.

We expect the outer limits of the mobile coverage area with a gain antenna roughly to be from the 12 O'Clock position clockwise Ellijay, Cleveland, Gainesville, Athens, Madison, Forsyth, LaGrange, to the Alabama state line, and Rome.

FUTURE EXPANSION

The group is currently in negotiations for a couple of other high site DMR repeaters and is also interested in talking to others interested in expanding DMR around Georgia. We are especially interested in talking to folks with high sites with existing repeater pairs and dedicated high speed internet access that are interested in converting to DMR as frequency pairs are running out on UHF in the Metro Atlanta area. Depending on financial support, resources and demand, we are considering putting up/converting at least two more repeater sites covering the North and NW and the Southern Metro Atlanta areas.

WE NEED YOUR SUPPORT

The capital cost for Atlanta Metro Central site was \$15k and for Snellville (Atlanta Metro East) was \$10k.



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There are also a number of recurring and ongoing costs such as for internet, maintenance and insurance. Please consider contributing or donating to this effort, no amount is too small and it is greatly appreciated.

To support our efforts, please contact Ken Bryant, K1DMR, 418 Sneaking Creek Drive, Hayesville, NC 28904, 828-389-5000 or PayPal.Me/KenBryant.

THANK YOU

This site would not be possible without the help of the following people:

Tom Welty, N4TAW for helping secure the location, he was instrumental in securing the site, working with the property managers on logistics, installation, meeting the internet installers, providing the ongoing internet access and numerous other help and tasks to secure this location.

John Davis, WB4QDX for his role as SERA repeater coordinator for GA in helping secure repeater coordination for this site, and for quickly turning around a coordination. We also appreciate SERA and the work they do on behalf of all repeater owners.

John Burningham, W2XAB, for providing the K4USD Cbridge the site will connect to, his advice and overall assistance with the project.

Tom Power, W8RED, for his assistance in identifying and securing the site, in getting the equipment ordered, logistics for all the equipment, expert installation, and overall support of the Amateur DMR Repeater Team. Tom personally funded the equipment at the Snellville Mountain site.

Ken Bryant, K1DMR, for his help in getting all the equipment ordered, logistics for all the equipment, personally funding the equipment at this site, and numerous other items. Please support Ken who is also your local “ham friendly” DMR dealer.